

Preface

International Conference on Engineering Materials (ICEM 2012) is held on December 30-31, 2012, Singapore, Singapore.

The proceedings of ICEM 2012 have been published by Advanced Materials Research, Trans Tech Publications. The proceedings include more than 100 excellent papers selected from about 200 submitted paper(s) whose authors involved at least 36 countries and areas such as Algeria, Australia, Austria, Bangladesh, Brazil, Canada, China, Czech Republic, Fiji, Finland, France, Germany, Greece, Hong Kong, India, Indonesia, Iran, Italy, Japan, Jordan, Korea, Malaysia, Mexico, Netherlands, Poland, Russian Federation, Singapore, Slovakia, South Africa, Spain, Syrian Arab Republic, Taiwan, Thailand, Turkey, United States, etc.

The conference is intended to bring together the researchers from academia and industry as well as practitioners in the multifaceted aspects of Engineering Materials.

In addition to the contributed papers, the conference committee has invited papers by active researchers from various countries in relevant topic areas covered at ICEM 2012. And experts from several countries are invited to deliver plenary/Keynote lectures at ICEM 2012.

Much of the success of the conference is due to topic coordinators who have devoted their expertise and experience in promoting and in general co-ordination of the activities for the organization and operation of the conference. The coordinators of various session topics have devoted a considerable time and energy in soliciting papers from relevant researchers for presentation at the conference. The Chairs of the different sessions played important roles in conducting the session in a timely and efficient manner, I am on behalf of the Committee, expresses sincere appreciation for their involvement.

The reviewers of the manuscripts, those by tradition would remain anonymous, have been very helpful in efficiently reviewing the manuscripts, providing valuable comments well within the time allotted to them. The Editors express their sincere and grateful thanks to all reviewers.

The ICEM 2012 International Committee is proud to dedicate this conference proceeding to Wei Lee, Melbourne ACM Chapter Chair, Australia; Jun Zhang, Huazhong University of Science and Technology, China; Minli Dai, Suzhou University, China; they are not only outstanding and visionary researchers but also humble leaders.

Finally, our sincere thanks to the support from technology program committee for designing the conference webpage and also spending countless days in preparing the final conference program in time for printing. Many thanks to Miss Han: ICEM 2012 secretary for arranging to type a large number of the invitation letters and for establishing the vast ICEM 2012 conference address data base. Sincere thanks to our organization committee for their several months' hard work in sorting out manuscripts from various authors. Also thanks to other staffs assisting in the various stage of the editorial work, especially the international committees of our conference.

Tan Jin

ICEM2012 Organizing Committee

Honorary Chair

Wei Lee, Melbourne ACM Chapter Chair, Australia

General Chairs

Jun Zhang, Huazhong University of Science and Technology, China
Minli Dai, Suzhou University, China

Publication Chair

Tan Jin, Wuhan University, China

Organizing Chairs

Khine Soe Thaung, Maldives College of Higher Education, Maldives
Biswanath Vokkarane, Society on Social Implications of Technology and Engineering, Maldives

Program Chair

Dehuai Yang, Huazhong Normal University, China

International Committee

Minli Dai, Suzhou University, China
Ying Zhang, Wuhan University, China
Zhenghong Wu, East China Normal University
Tatsuya Akutsu, ACM NUS Singapore Chapter, Singapore
Aijun An, National University of Singapore, Singapore
Yuanzhi Wang, Anqing Teachers' University, China
Yiyi Zhouzhou, Azerbaijan State Oil Academy, Azerbaijan
Khine Soe Thaung, Maldives College of Higher Education, Maldives
Biswanath Vokkarane, Society on Social Implications of Technology and Engineering
Wu Min, Nanchang University, China
Wu Yijin, Huazhong Normal University, China